

## **ABSTRACT OF THE DISCLOSURE**

The principles of the present invention extend to efficiently and reliably providing message related data. Generally, data fields of electronic messages and attachments are created in accordance with an electronic message schema hierarchy. An electronic message can include links to folder items that represent message folders. An electronic message can also include links to contact items that represent message participants. Message applications can register for folder spaces such that each message application is aware of folders that are primarily controlled by other message applications. A link to a contact item can be selected to access current contact related data for a message participant, even when the contact related data has changed since an electronic message containing the link was received.

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